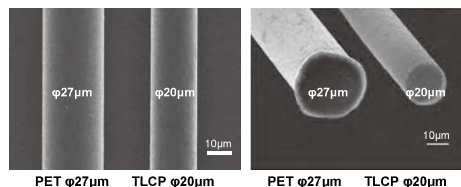


Next Generation TLCP (Thermotropic Liquid Crystal Polymer) Monofilament Mesh for High Precision Screen Printing Applications

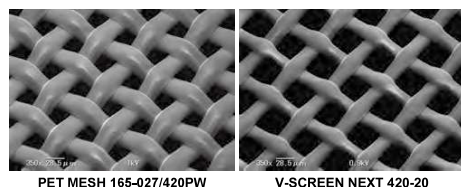
Material

TLCP (Thermotropic Liquid Crystal Polymer) Monofilament thread available as fine as 20μm in diameter.



On-Press Benefits

- Excellent dimensional accuracy & longevity
- Improved fine line resolution
- Thinner ink deposit & smoother ink transition

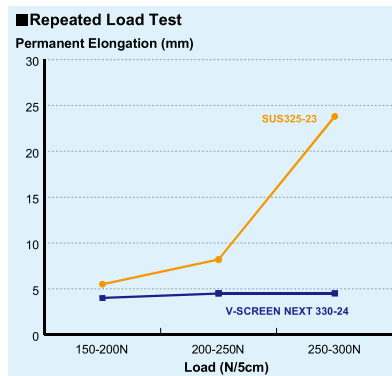
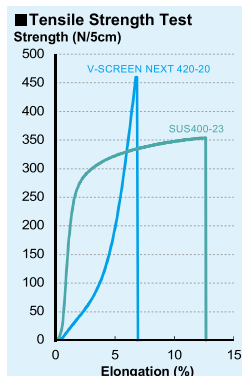
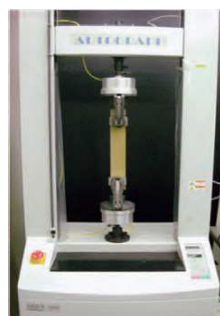


- Super fine threads create larger mesh openings, which reduce mesh interference to the print image and improve ink transition.
- Thinnest commonly available PET threads are φ27μm, compared with V-SCREEN NEXT's φ20μm.
- Smooth mesh surface helps achieve proper emulsion Rz value a key factor contributing to the highest possible resolution.

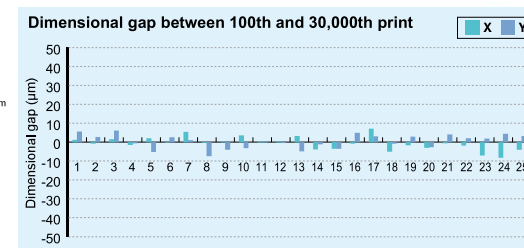
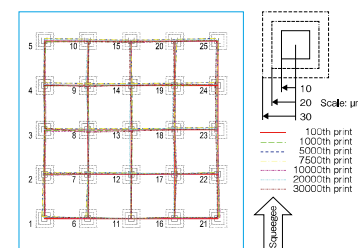
Outstanding Physical Properties

V-SCREEN NEXT features excellent tensile strength and recovery elasticity, as shown in the diagrams below.

- Benefits: □ High screen tension for dimensional accuracy
□ Minimal screen tension loss and distortion even after long press runs

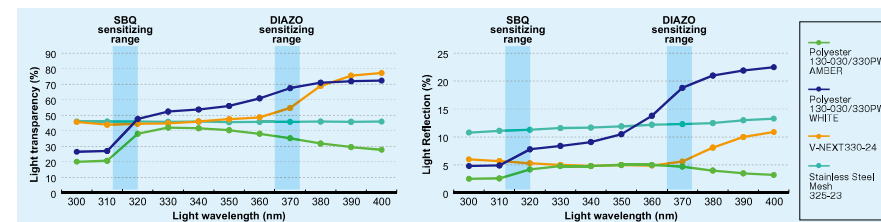


Superior Dimensional Accuracy Proven by 30,000 Print Test

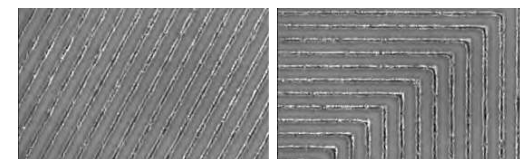


High Performance Exposure

V-SCREEN NEXT boasts higher light transparency and lower light reflection than stainless steel wire mesh as shown in the light spectrum analysis below. This enables easier set-up of exposure time for fine screen resolution.



Excellent Resolution for Fine Line Printing



Printing & Screen Parameters	
Print output	: 20μm Line & 40 μm Space
Paste	: Ag paste for LTCC (300Ps + sec)
Mesh type	: V-SCREEN NEXT 420-20
EOM	: 10μm

Specifications

Mesh code		Mesh count		Thread diameter	Mesh thickness	Mesh opening	Mesh open area	Theoretical ink volume
		/cm	/inch	μm	μm	μm	%	cm ³ /m ²
V-SCREEN NEXT	420-20	165	420	20	27±3	40	45	12.1
	380-20	180	380	20	27±3	47	49	13.3
	380-24	150	380	24	33±3	43	41	13.6
	330-24	130	330	24	33±3	53	47	15.6

The above specifications may change without notice as a result of product quality improvements. Please ask your sales representative or supplier for availability or more information.